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Insu Jeon

Seoul, South Korea

## EDUCATION

- SEOUL NATIONAL UNIVERSITY (SNU), SEOUL, KOREA** SEP 2012 – AUG 2023  
▪ Ph.D. in Computer Science, specializing in Machine Learning (ML) and Artificial Intelligence (AI) (GPA: 3.9 / 4.3)
- UNIVERSITY OF CALIFORNIA, LOS ANGELES (UCLA), USA** SEP 2009 – MAR 2012  
▪ Bachelor of Science in Computer Science, and Minor in Statistics (GPA: 3.49 / 4.0)

## WORK EXPERIENCES

- AI RESEARCHER, VISION AND LEARNING LABORATORY, SNU** MAR 2017 – PRESENT  
▪ Conducted advanced research in Generative models, Natural Language Processing (NLP), and Bayesian meta-learning.
- AI RESEARCHER, EVER-DOUBLING LLC.** JUN 2021 – DEC 2021  
▪ Participated in AI Grand Challenge; developed a math problem-solving AI engine using a General Language Model.
- CHIEF TECHNOLOGY OFFICER, RIPPLEAI** FEB 2018 – DEC 2019  
▪ Managed a team of 9 developers and engineers; developed an Instagram comment-generating bot.
- MACHINE LEARNING RESEARCHER, ARTIFICIAL INTELLIGENCE LABORATORY, SNU** SEP 2012 – SEP 2016  
▪ Developed ML algorithms for computer vision tasks such as defect detection, super-resolution, and registration.

## PROJECTS

- UNSUPERVISED LEARNING-BASED DATA GENERATION RESEARCH, AGENCY FOR DEFENSE DEVELOPMENT (ADD)** JUN 2022 – PRESENT  
▪ Improved military object recognition performance by 10% via Generative model-based data augmentation.
- NEURAL PROCESSING SYSTEM RESEARCH, SAMSUNG ADVANCED INSTITUTE OF TECHNOLOGY** MAR 2018 – SEP 2019  
▪ Contributed to Samsung's core AI vision technology, and organized group activities for researchers.
- COMPUTER VISION PROJECTS, SAMSUNG DEVICE SOLUTIONS INSTITUTE** MAR 2013 – SEP 2017  
▪ Optimized defect-monitoring systems in semiconductor display (SEM/OLED) production lines.

## PUBLISHED PAPERS

- FEDERATED LEARNING WITH META-VARIATIONAL DROPOUT** UNDER REVIEW  
▪ Presented at a high-rank ML conference, Neural Information Processing Systems (NeurIPS) 2023.
- NEURAL VARIATIONAL DROPOUT PROCESSES** APR 2022  
▪ Published at a high-rank ML conference, International Conference on Learning Representation (ICLR) 2022.
- IB-GAN: DISENTANGLED REPRESENTATION LEARNING WITH INFORMATION BOTTLENECK GENERATIVE ADVERSARIAL NETWORKS** MAY 2021  
▪ Published at a high-rank AI conference, Association for the Advancement of Artificial Intelligence (AAAI) 2021.
- BLIND IMAGE DECONVOLUTION USING STUDENT'S-T PRIOR WITH OVERLAPPING GROUP SPARSITY** MAR 2017  
▪ Published at a high-rank International Conference on Acoustic, Speech, and Signal Processing (ICASSP) 2017.
- SPATIAL KERNEL BANDWIDTH ESTIMATION IN BACKGROUND MODELING** SEP 2016  
▪ Published at International Conference on Machine Vision (ICMV) 2016.

## AWARDS

- 1<sup>TH</sup> KBIG-CONTEST – NATIONAL INFORMATION SOCIETY AGENCY** DEC 2013  
▪ Developed Twitter hot issue forecaster using NLP algorithm and placed an encouragement award.

## TEACHING EXPERIENCE

- SPECIAL LECTURES ON BAYESIAN DATA ANALYSIS AND STATISTICAL INFERENCE – GSSHOP** MAY 2019  
▪ Delivered lectures on Bayesian theory and statistical inference techniques for commercial data analysis.
- PRACTICAL GUIDE TO DEEP LEARNING – KOREA BANKING INSTITUTE** MAR 2019  
▪ Conducted lectures on Deep Learning and Natural Language Processing.
- INTRODUCTION TO GENERATIVE MODEL WITH PYTORCH – FASTCAMPUS** SEP 2017 – SEP 2018  
▪ Taught courses on Deep Generative model and Bayesian Deep Learning.
- SPECIAL ISSUES IN MACHINE LEARNING AND DEEP LEARNING – SEOKYONG UNIVERSITY** JUN 2017  
▪ Performed lectures on Modern developments in Machine Learning, Deep Learning, and Artificial Intelligence.
- PREREQUISITE COURSES FOR ARTIFICIAL INTELLIGENCE – SNU 4<sup>TH</sup> INDUSTRIAL REVOLUTION ACADEMY** MAY 2017  
▪ Prerequisite courses for understanding Artificial Intelligence - Linear Algebra, Probability, and Statistics.

## TECHNICAL SKILLS

- COMPUTER SKILLS:**  
▪ Python, C/C++, Java, JavaScript, Objective C, OpenMP, CUDA, HTML, Bash, Windows, Mac OS, Linux
- LANGUAGES:**  
▪ Korean (native), English (proficient)